

59th Medical Wing



U.S. AIR FORCE

59 MDW Neurology Product Line Analysis Departmental Response

Information Brief

Briefer: Lt Col Wicklund

Date: 6 Jan 2005

Integrity - Service - Excellence

Wilford Hall Medical Center **Neurology**

Future...

Present...

Past...

Matthew P. Wicklund, MD

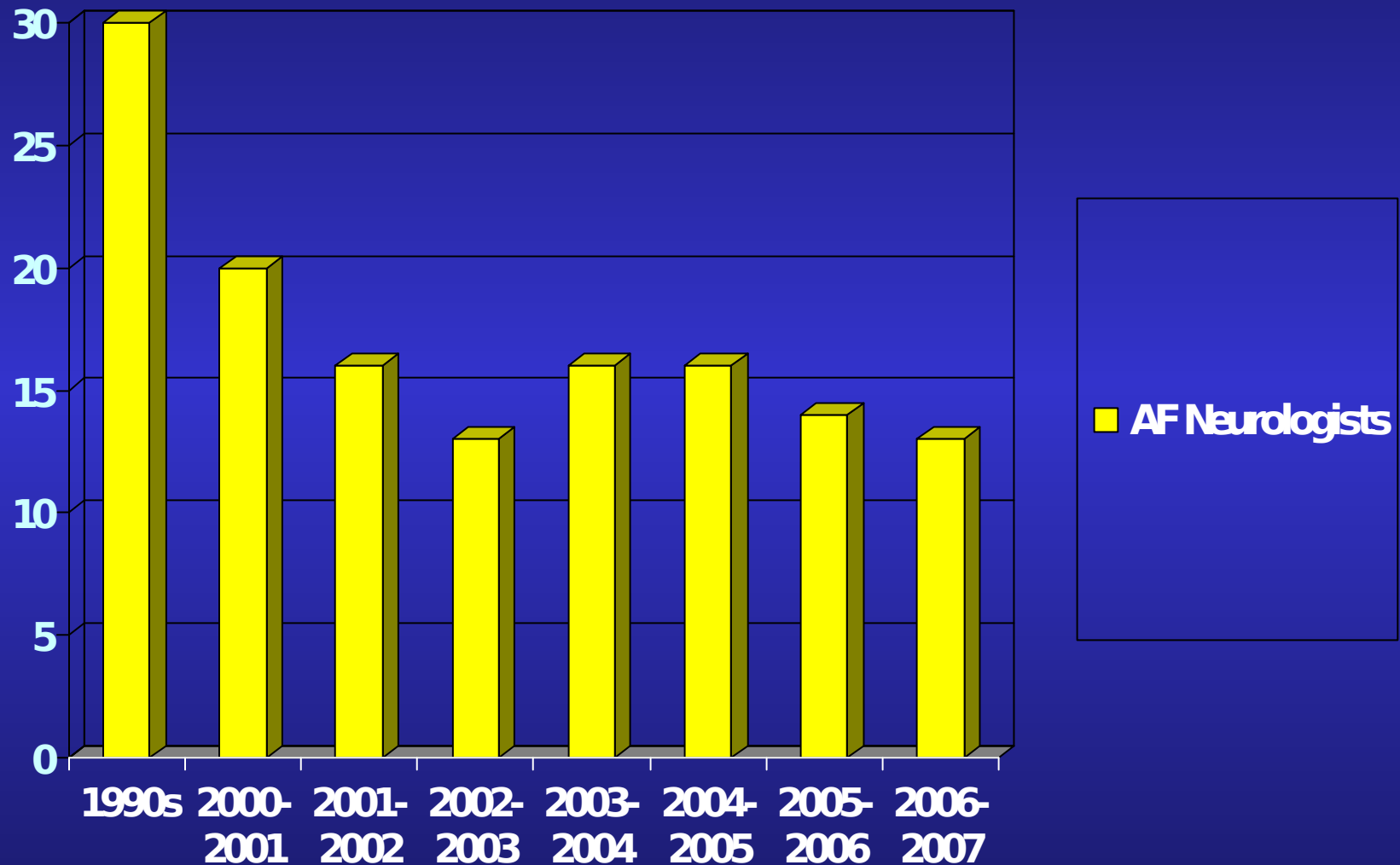
Lt Col, USAF, MC

Chairman, Department of Neurology

Past

- WHMC Neurology - 1990s
 - 6-9 staff neurologists
 - One staff neurologist at Brooks
 - 9 total residents (3 per PGY year group)

Historical Air Force Wide Neurology M



Present

- **Patient Care**

- COMPREHENSIVE

- One of few WHMC clinics seeing all beneficiary categories
 - We send nothing downtown

- SPECIALIZED

- Only epilepsy center in USAF and most active center in DoD
 - Only neuromuscular center in USAF
 - Worldwide referral center - consultations from every continent except Australia and Antarctica in 2003

- CUTTING EDGE

- Sole location in North America treating prion diseases with intraventricular pentosan polysulfate
 - Only four other patients worldwide receiving this therapy

- COOPERATIVE

- WHMC supports BAMC with sub-specialty coverage
 - Prime patient consultations
 - Epilepsy monitoring
 - Neuromuscular to include: consultations, EMGs, muscle biopsies, Botox
 - GME - for BAMC IM residents

Present

- **Readiness**

- FLYERS

- Primary neurological support to Aeromedical Consultation Svc
 - Previously full time position at Brooks

- WARFIGHTERS

- Defense Veterans Brain Injury Center
 - DoD/VA congressionally funded program
 - Support to OIF/OEF casualties
 - Case management, consultation and research into mild, moderate and severe brain injury

- EDUCATORS

- Senior editors of the *Neurologic Clinics of North America* issue in May 2005 on Neurological Toxins and Weapons

Present

- **GME**

- EXCELLENCE

- Residency Program is Wilford Hall stand alone
 - RRC Status: 5-year accreditation – Next accreditation - 2008
 - Overall Program Health: Excellent, but guarded
 - Board Certification Pass Rate – 100% for 15 years
 - Scores: Program usually in top 5%, always in top 15%
 - Top score in nation on in-service exam in 2003
 - 98th percentile in 2004
 - Has produced university chairmen and vice-chairmen of neurology

Present

- **Research**

- FORWARD THINKING

- Sponsors neurological research (particularly military unique topics)
 - 10-20 publications each year
 - Research presentations annually at our annual Academy meetings
 - Our faculty teach the courses at this national meeting

Neurology Department Staffing - multitasking

- Lt Col Wicklund - .50 FTE
 - **Chairman**
 - **Neurology Consultant***
- Lt Col Jaffee - .30 FTE
 - **Program Director**
 - **DVBIC PI***
 - **ACS support*#**
- Maj Richards - .25 FTE
 - **3/4 time peds neuro***
- Contractor - 1.0 FTE
- Lt Col Avery - .50 FTE
 - **Flight Commander**
 - **Geriatrics Consultant***
 - **Sole WHMC geriatrician***
- Maj Grogan - .80 FTE
 - **Training Officer**
- Maj Dobbs - .80 FTE
 - **Research Coordinator**
- **FTEs: Now = 4.15**
2000 = 7.65

*** = previously not in the Department**

= previously a full time neurologist at Brooks AFB

Present

- Neurology PLATT
 - Just approved by AFMSA

Neurology Clinic CCA Detail

Model Elements	Benchmarks	Comments
Neurologist (44N3)	1: 43,478 (2.3/100K)	<ul style="list-style-type: none"> Group Health of Puget Sound, Seattle; Group Health Foundation, Minneapolis GME adjustments/additives
Support Staff (PAA) Nurse Medical Technician Admin Support	0.3 1.5 0.5	<ul style="list-style-type: none"> Nurse FTEs earned with other IM subspecialties Round up at 0.5 Assumption: Neurology co-located with other IM shreds
Productivity Target Neurologist:	7,980 RVUs	<ul style="list-style-type: none"> 2002 50th percentile for UHC 6,508 – 2002 AFMS average
Facility Requirements	2 treatment	<ul style="list-style-type: none"> DOD Medical Space Planning

Neurology Clinic BCA

<u>ECA</u>	Primary: Substitute:	No UTC requirements Not a substitute for other AFSCs
<u>CCA</u>	Target Benchmark: Support Staff: Target RVUs:	1 per 43,478 Population Served 46N3: 0.3 4NX0: 1.5 4AX0: 0.5 7980 RVUs/provider
<u>BCA</u>	Total Revenue per PAA Block: Total Expense: Expected ROI:	\$577,787 \$336,314 \$208,473

Worst-case revenue per RVU is used which is based upon the lowest geographic reimbursement rate of all AFMS MTFs, currently the South Carolina rate, \$82.60. "Average" and individual revenues would actually be higher.

Neurology Clinic BCA

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<u>BCA</u>	Total Revenue per PAA Block: Total Expense: Expected ROI:	\$288,796 \$316,580 (\$27,784)

The geo-locality adjusted average total RVU of \$36.19 was used as a conservative approach for estimating the return on investment.

Future

- Data Quality
- Regional Cooperative Care for Neurology Services
- Medical and Financial Improvements
- Suggestions

Future

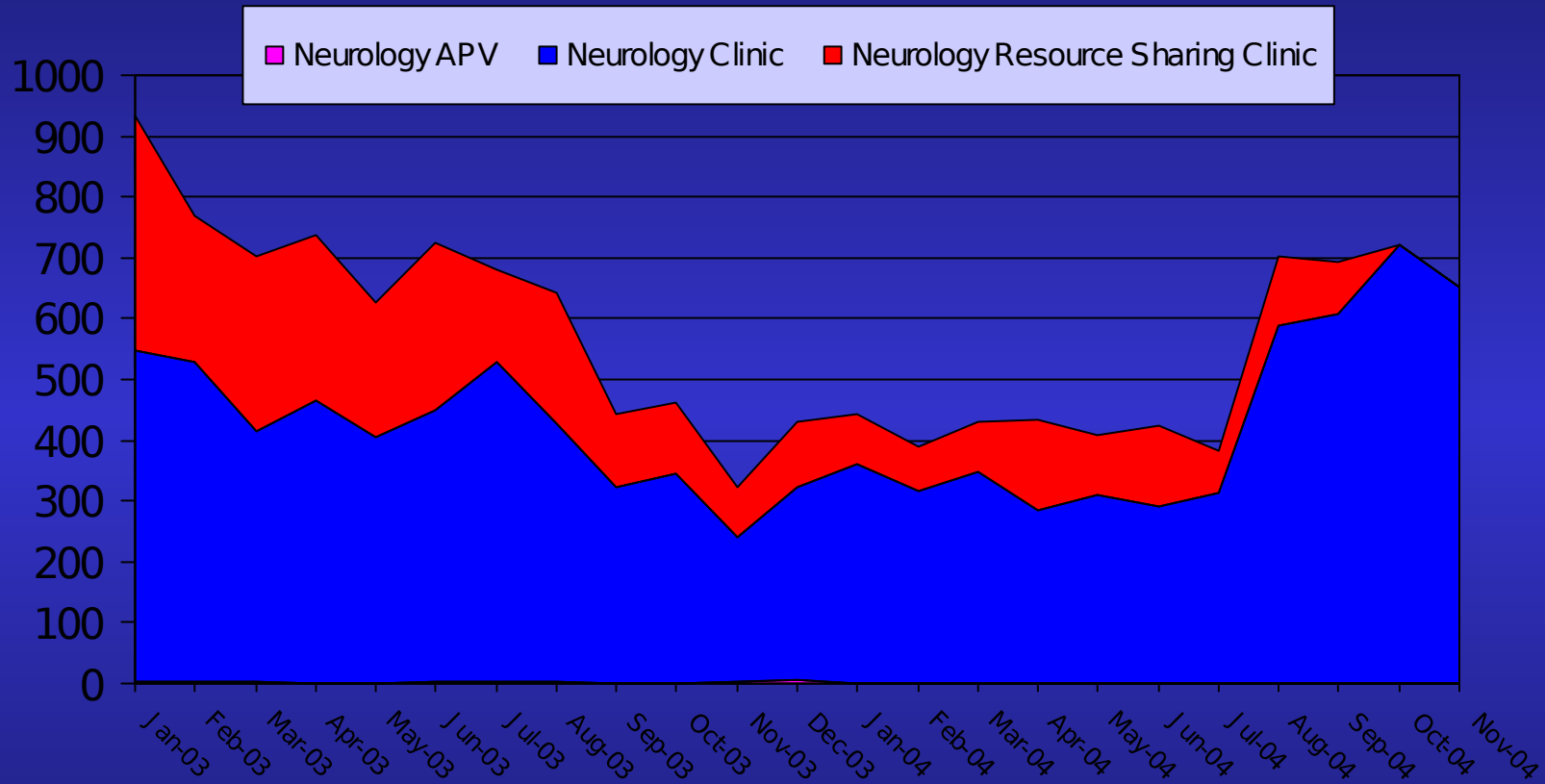
- **Data Quality**
- Regional Cooperative Care for Neurology Services
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- Suggestions

Since our initial brief

- Met with Maj Weitzel of ENT the same day
 - Reviewed his brief
- Our method
 - Templates set up for maximal billing
 - ROS key documentation point for billing
 - Templates
 - “Coding Made Ridiculously Simple” briefings to our residents and staff
 - Coding some telecons – previously lost as patient counts
 - Coding inpatient consults – previously lost as patient counts
 - EEGs / EMGs– lost as patient counts and for billing

Neurology

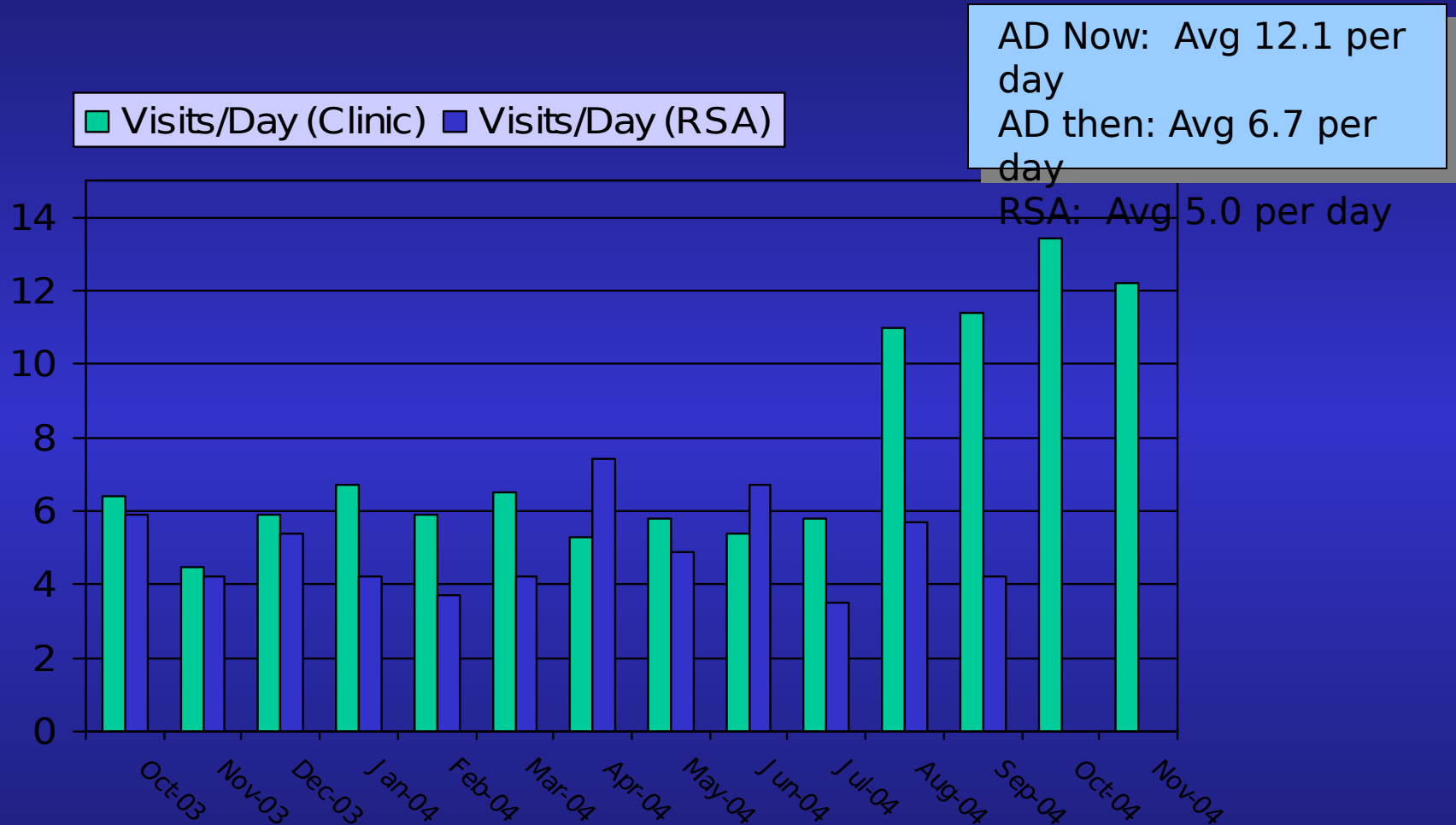
Total OP Visits 2003-2004



- **Past four months:** **692/mo**
- **Actual Δ = -6%**
- **FY04 Avg (to date): 460/mo**
 - Δ = -38% Δ
- **FY03 Avg:** **739/mo**

Neurology

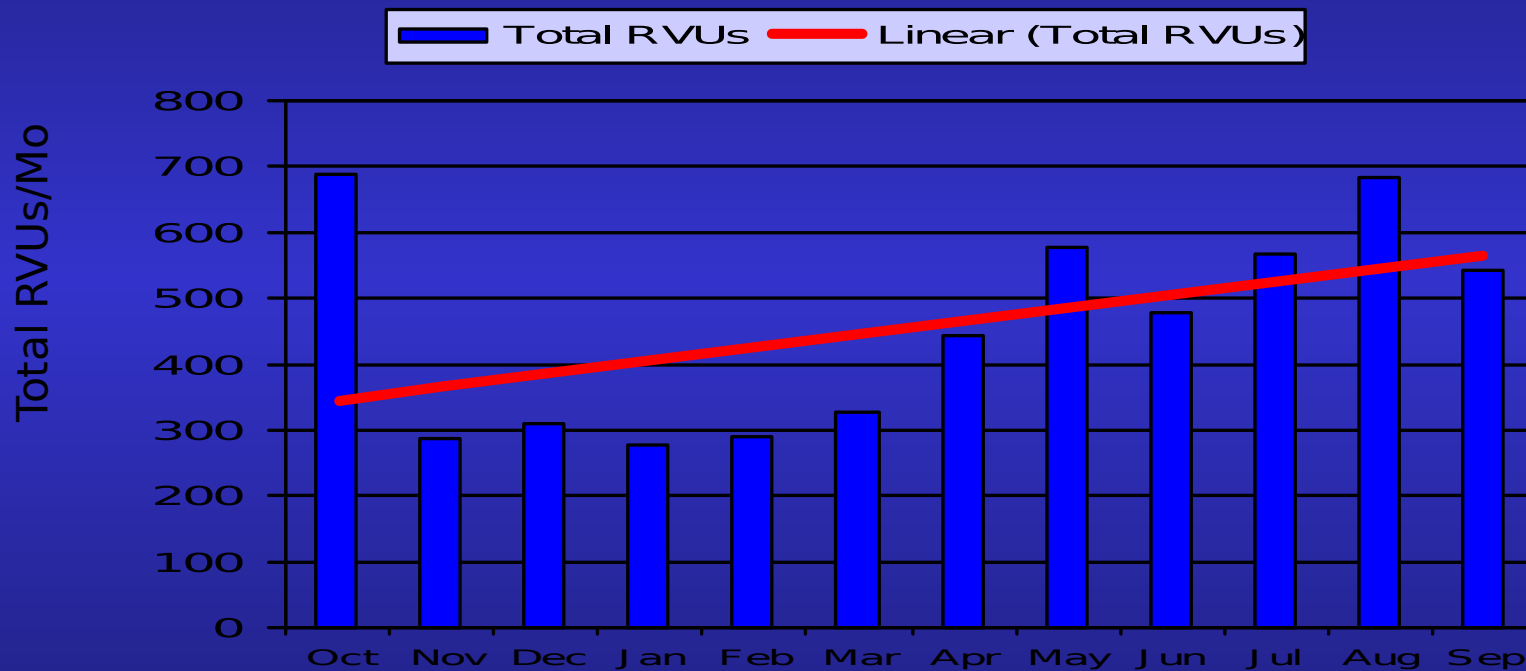
FY04 OP Visits/FTE/Day*



- FY 2004 RSA = 1 FTE & 5 AD staff = 2.68 FTE
- FY 2005 Contractor = 1 FTE and 5 AD staff = 2.68 FTE
- MERBS shows 2.4 total

Neurology

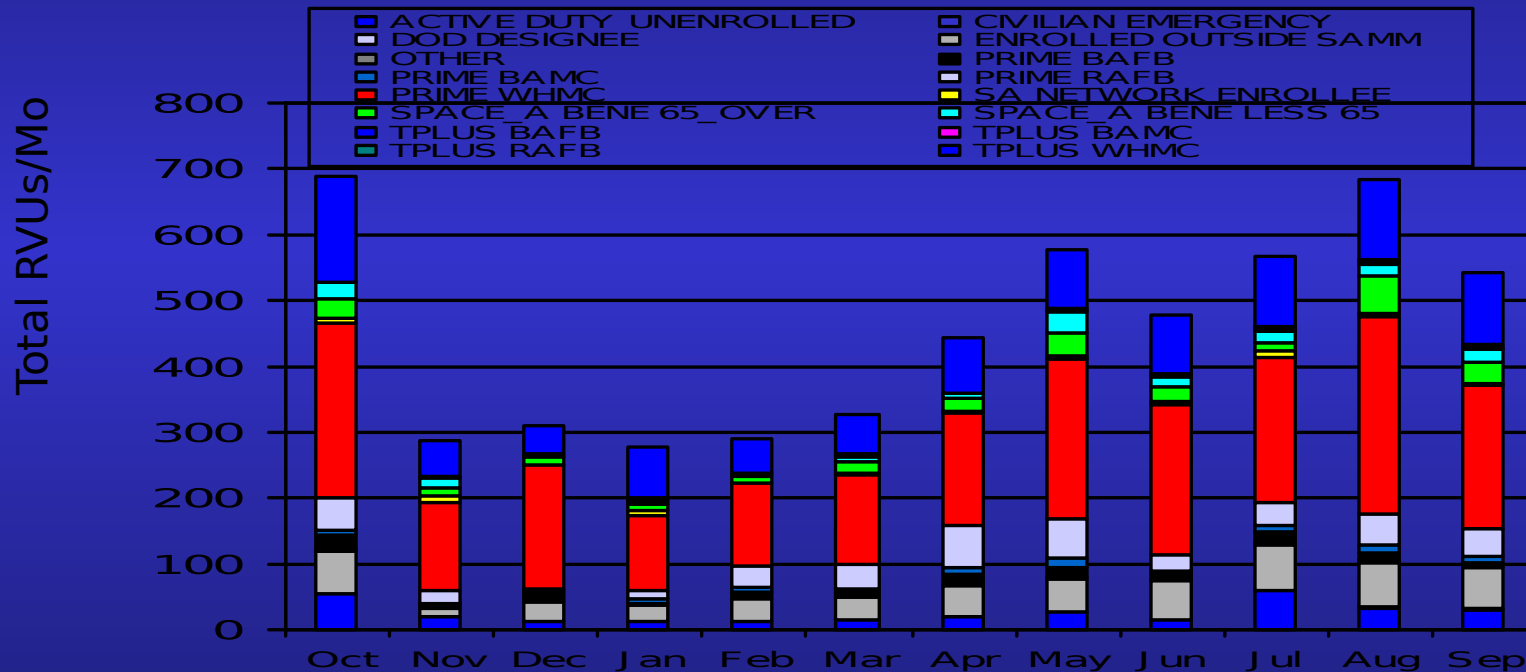
Total RVUs FY04



- WHMC Avg: 456/mo and increasing

Neurology

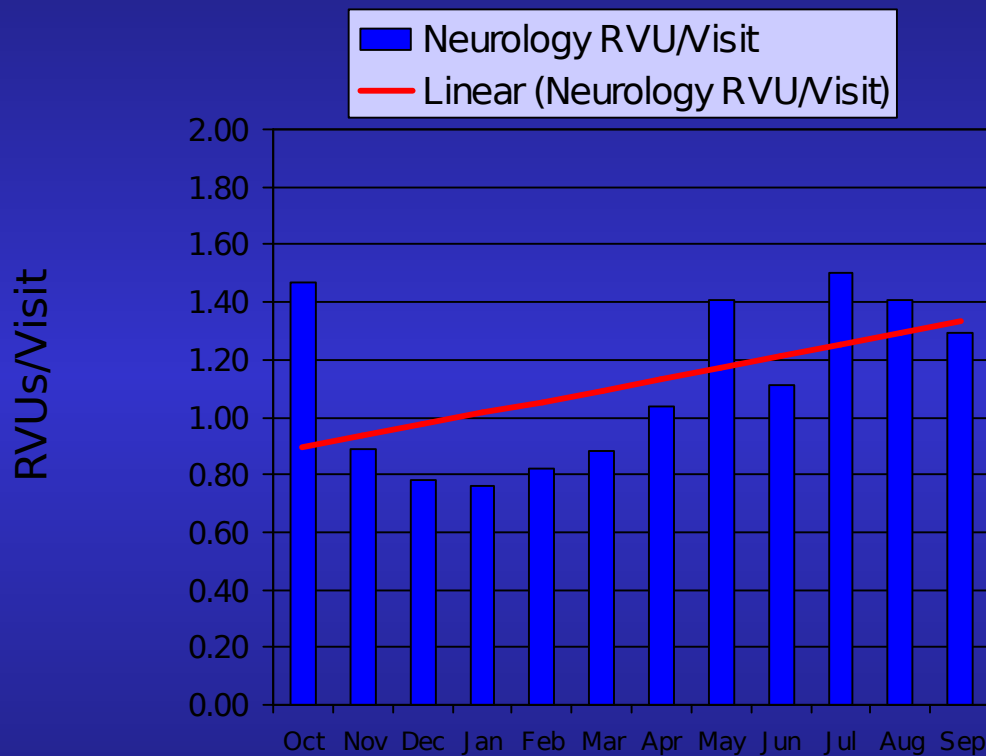
Total RVUs FY04 (by Enrollment Type)



• WHMC Avg: 456/mo

Neurology

Total RVUs/Visit FY04

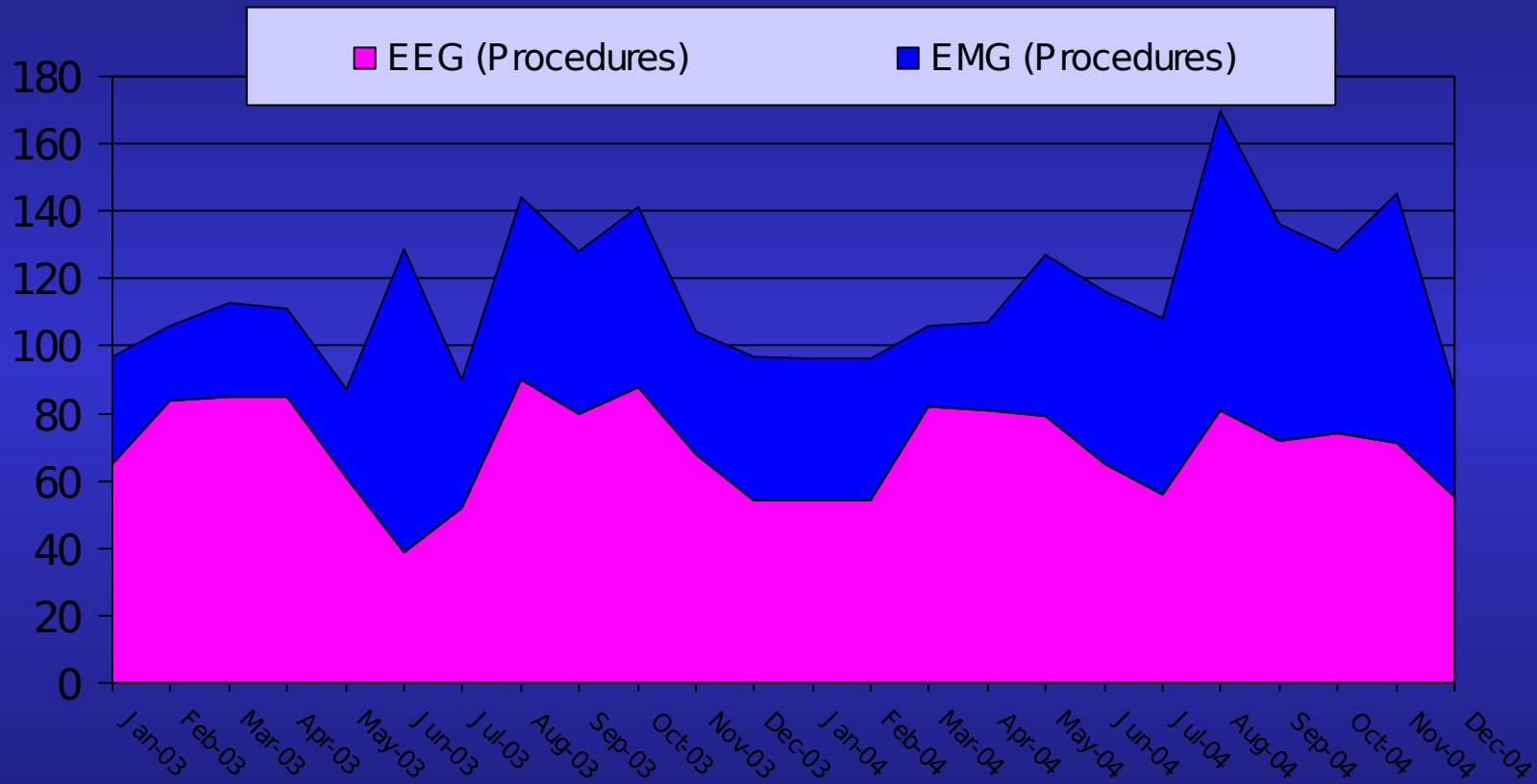


- FY03 Avg: 0.90 RVUs/visit
- FY04 Avg is **1.14** RVU/visit
- May thru Sep 04: Avg increased to **1.35** RVUs/visit

Since our initial brief

- Met with the Pit Crew
- Met with Maj Parks Gibson and coders
 - Productive interchange of ideas
 - Some systems problems inhibited optimal billing
 - Will now get feedback on our audits
 - May obtain a coder
 - Not unhappy without one
 - Highest reimbursement rate

Neurology EEG/EMG 2003-2004



- EEG: down 3% to 69/mo
- EMG: up 20% to 50/mo

Since our initial brief

- Extreme frustration with change in MEPRS coding from BAKA to DDBA (EEG) and DDCA (EMG)
 - Both “D” codes are non-counts and non-billable
- Reviewed the EIC site under:
“Standardized AF Workload Capture Guidelines”
- Revealed the following table:

Issue	Definition	Coding	Workload Count	Billable
ECG, EEG , cardiography, echo, pulmonary etc.	<ul style="list-style-type: none"> EEG/ECG/PFT/Holter, events monitor/ambulatory BP monitor is accomplished in a separate clinic (ER, flight medicine, family practice) EEG/ECG/PFT/Holter, events monitor/ambulatory BP monitor accomplished centrally in the cardiopulmonary lab Tests done with the provider <u>present</u> (e.g. EMG, stress test, cardiolute, pulmonary stress test, tilt table tests, etc) 	<p>E&M: Appropriate codes for privileged provider's visit, CPT for procedure</p> <p>ADS is not used</p> <p>E&M: Appropriate codes</p>	<ul style="list-style-type: none"> Technician is listed as an additional provider; activity is not a separate encounter but is considered as part of the privileged provider's visit Workload in appropriate DD** MEPRS code NOTE: Tests interpreted by provider other than the ordering provider are currently not captured as workload. The provider's time should be captured under the appropriate DD** MEPRS code. "Count" visit in privileged provider's "B" MEPRS code. Technician is listed as additional provider 	<p>Y</p> <p>N</p> <p>Y</p>

Data Quality

- Return to coding EEGs and EMGs as physician counts as recommended above => markedly increased billing and appropriate documentation of physician workload.

EEGs: 70/mo at ~ \$220/study

=> \$16,000/mo and **\$200,000/yr**

EMGs: 50/mo at ~ \$1000/study

=> \$50,000/mo and **\$600,000/yr**

Data Quality

- AAAA => AAJA
 - 2 years ago we noted that roughly 1/3 of our inpatient's charts were being credited to internal medicine (AAAA) and not neurology (AAJA)
 - Internal medicine interns rotate on the neurology ward service
 - Cognizance

Future

- Data Quality
- **Regional Cooperative Care for Neurology Services**
- Medical and Financial Improvements
- Suggestions

Regional Cooperative Care for Neurology Services

- BAMC

- Discussions with their Chief of Neurology Services
 - Journal club
 - EEG techs
 - Physician exchanges
 - Residents at BAMC
- BRACC?

- UTHSCSA

- GME – discussions with UT Neurology Program Director
 - WHMC Neurology inpatient service too small
 - WHMC losing critical mass to support stand alone GME programs
 - Expanded affiliation
 - Especially for inpatient ward experiences

Regional Cooperative Care for Neurology Services

- North Side

- Consideration to placing a single neurologist at Randolph or Camp Bullis 1-5 days per week

- Regional

- For the 9 months we have been contacting some of the regional USAF medical facilities in an outreach program
- Win, win, win
 - Us - GME
 - Them - ready access to quality neurology care
 - Us - Facility recoups credit?

Future

- Data Quality
- Regional Cooperative Care for Neurology Services
- **Medical and Financial Improvements**
- Suggestions

Medical and Financial Improvements

- Due to our current business practices
 - CHCS II should not be a work slowdown

Medical and Financial Improvements

- Transcranial Doppler

- Potential to decrease use of MRIs (studies/year)
 - Pediatrics (100-200)
 - ~ \$1500 - \$3000 per MRI
 - Likely ~ **\$200,000** total
 - Adult (100-200)
 - ~ \$1500 per MRI
 - Likely ~ **\$200,000** total
- Excellent GME benefit
- Requirement
 - Release of funds
 - Purchase (approved/funded) **(\$29,000)**
 - Update in operator training **(\$12,000)**

- Epilepsy Monitoring

- We did
 - Over 40 cases last year
 - ~ \$3000/day in network
- We have
 - The equipment
 - Physician expertise and time
- We lack
 - Experienced monitoring technician
 - RSA technician's contract thought to be tied to our RSA neurologist - position terminated
- We need
 - ~ **\$35,000** annually in salary
- We save
 - ~ **\$300,000** annually in costs to network

Future

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Suggestions

1. Advertise that a portion of 3rd party billing will go back to each Department for their use (equipment purchase, TDY, furniture upgrades, etc.)
2. Treat WHMC as a university hospital encouraging research grants (take a 20-40% cut on grants just as the University's Dean would)
3. Consider setting up a Center for Geriatrics Medicine through Jackson / True / Fact:
 - This might allow for billing of Medicare for >65 patients
4. Require that all personnel trained in a clinical specialty (at the squadron level and below) work in that clinical specialty for at least one full shift weekly. Triple benefit:
 - Increased productivity
 - Supervisors better acquainted with their duty sections
 - Less time available to generate taskers

Summary

- Data Quality
 - Improving, especially with better interchange of info
 - Recoup EMG/EEG counts and billing
 - Should become profitable
- Regional Cooperative Care for Neurology Services
 - Expanded interactions with BAMC
 - Residency with greater affiliation with UT
 - North side neurology assets?
- Medical and Financial Improvements
 - CHCS II should not be a big impediment
 - Epilepsy monitoring and TCD

Bid Price Adjustment

- The data reported do not correlate with other reported data.